

Abstract

Constrained tap weights of a decision feedback equalizer are determined according to the channel impulse response of a channel and a constraint function. The  
5 constraint function is differentiable and comprises an approximation of a non-differentiable tap weight constraint function. The tap weight constraint function may have a constraint value  $M$  that is a function of a  
10 mean squared error of the estimated means squared error at the output of the decision feedback equalizer.